

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY **REGION III** 1650 Arch Street

### Philadelphia, Pennsylvania 19103-2029

June 28, 2012

Mr. John Mork, Chief Executive Officer **Energy Corporation of America** 501 56th Street East Charleston, WV 25304

Re:

Permit Requirements for Underground Injection Control Program

When using Diesel Fuels in Hydraulic Fracturing Fluids

Dear Mr. Mork:

The Energy Policy Act of 2005 exempted hydraulic fracturing (fracking) operations from the regulation of the Underground Injection Control (UIC) program except when diesel fuels are used. The Act, however, does not provide a clear description for "diesel fuels," and thus there has been some confusion about when a permit is required. The Environmental Protection Agency (EPA) has now developed the draft "Permitting Guidance for Oil and Gas Hydraulic Fracturing Activities Using Diesel Fuels," which provides for a specific description for "diesel fuels," as well as technical recommendations and an overview of requirements for permitting under the UIC class II program. This draft guidance was posted on May 10, 2012, and EPA will be accepting comments on the guidance until July 9, 2012. The draft guidance can be found at the following website.

(http://water.epa.gov/type/groundwater/uic/class2/hydraulicfracturing/upload/hfdieselfuelsguidance.pdf)

Under the draft guidance, there are six substances (products, compounds, etc.) with corresponding Chemical Abstracts Service (CAS) registry numbers which are included in the diesel fuels description. The register numbers are CAS 68334-30-5, CAS68476-34-6, CAS 68476-30-2, CAS 68476-31-3, CAS 8008-20-6, and CAS 68410-00-4. If any constituent with one of these CAS numbers is used in any amount for hydraulic fracturing, the operation will require a permit through the UIC program.

The UIC program may be implemented by a state that has acquired primacy, or by EPA when the state has not been granted primacy. In EPA Region 3, West Virginia, Maryland and Delaware have acquired primacy and implement the UIC program. While this guidance is intended for EPA permit writers, primacy states may find the recommendations valuable and choose to utilize them when implementing the state's existing regulatory framework. EPA directly implements the UIC program in Pennsylvania, Virginia, and the District of Columbia. In these jurisdictions, an owner or operator of an oil or gas production well who proposes to use a fracking fluid which meets the "diesel fuels" description, is required to obtain a UIC permit from EPA Region 3.

This letter is EPA's formal notification that oil and gas operators within Pennsylvania and Virginia who propose to use diesel in their fracking operations, of the requirement to obtain a UIC permit through EPA Region 3. Failure to do so is a violation of the UIC program and may result in an enforcement action. If you have any questions concerning this issue or the UIC permitting process, please contact Steve Platt of my staff at (215) 814-5464.

Sincerely,

Karen D. Johnson, Chief

Ground Water & Enforcement Branch

Karen D John

Office of Drinking Water & Source Water Protection



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 1650 Arch Street

### Philadelphia, Pennsylvania 19103-2029

June 28, 2012

Mr. Mark Pease Vice President of Domestic Operations Anadarko Petroleum Corporation 1201 Lake Robbins Drive The Woodlands, TX 77380

Re:

Permit Requirements for Underground Injection Control Program

When using Diesel Fuels in Hydraulic Fracturing Fluids

Dear Mr. Pease:

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Sincerely,

Karen D. Johnson, Chief

Ground Water & Enforcement Branch

Karen D. John

Office of Drinking Water & Source Water Protection



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 1650 Arch Street Philadelphia, Pennsylvania 19103-2029

November 19, 2012

Director of Operations XTO Energy, Inc. 395 Airport Road Indiana, PA 15701-8914

Re:

Permit Requirements for Underground Injection Control Program

When using Diesel Fuels in Hydraulic Fracturing Fluids

To whom it may concern:

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Sincerely,

Karen D. Johnson, Chief

Karen D. Johns

Ground Water & Enforcement Branch

Office of Drinking Water & Source Water Protection



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 1650 Arch Street Philadelphia, Pennsylvania 19103-2029

June 28, 2012

Mr. Doug Kepler Vice President Seneca Resources Corporation 5800 Corporate Boulevarde, Suite 300 Pittsburgh, PA 15237

Re:

Permit Requirements for Underground Injection Control Program

When using Diesel Fuels in Hydraulic Fracturing Fluids

Dear Mr. Kepler:

The Energy Policy Act of 2005 exempted hydraulic fracturing (fracking) operations from the regulation of the Underground Injection Control (UIC) program *except when diesel fuels are used.* The Act, however, does not provide a clear description for "diesel fuels," and thus there has been some confusion about when a permit is required. The Environmental Protection Agency (EPA) has now developed the *draft* "Permitting Guidance for Oil and Gas Hydraulic Fracturing Activities Using Diesel Fuels," which provides for a specific description for "diesel fuels," as well as technical recommendations and an overview of requirements for permitting under the UIC class II program. This draft guidance was posted on May 10, 2012, and EPA will be accepting comments on the guidance until July 9, 2012. The draft guidance can be found at the following website.

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Sincerely,

Karen D. Johnson, Chief

Karn D. John

Ground Water & Enforcement Branch

Office of Drinking Water & Source Water Protection

#### Reinhart, Roger

From:

Richard Davidson [rdavidson@rangeresources.com]

Sent:

Wednesday, February 26, 2014 2:56 PM

To:

Reinhart, Roger

Subject:

RE: Follow up on Class 2 D Disposal Wells in Pennsylvania

Roger,

If you did not send the letters out yet, I was recently advised that below is the contact you should send the letters to:

Mary Curliss Patton, P.E.
Director of Regulatory - Northern Marcellus Shale Division
Range Resources - Appalachia, LLC
100 Throckmorton, Suite 1200
Fort Worth, TX 76102

We had some more internal discussion about who would be best for you to contact.

However if you already had them sent to the other names I gave you that is fine also. They contacted Mary and will pass them

on to her if they get them. Sorry about the confusion.

Like I said I just recently learned that Mary is the most appropriate person to contact for this.

Thanks again for all your help with everything. Have a good day.

Thanks,

Richard Davidson Geological Technician III

Range Resources - Appalachia, LLC 3000 Town Center Blvd Canonsburg, PA 15317 724 - 873 - 3268 - Office 724 - 873 - 5494 - Fax



**From:** Reinhart, Roger [mailto:Reinhart.Roger@epa.gov]

Sent: Wednesday, February 26, 2014 2:50 PM

To: Richard Davidson

Subject: RE: Follow up on Class 2 D Disposal Wells in Pennsylvania

Thank you Richard.

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